



**PAGER** Version 3

10,000

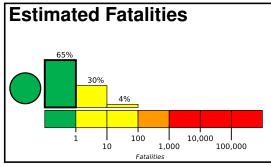
100,000

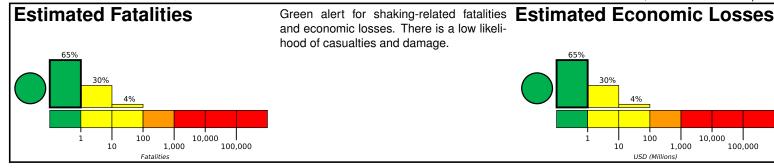
1,000

Created: 2 hours, 3 minutes after earthquake

# M 4.2, 2 km E of Magas Arriba, Puerto Rico

Origin Time: 2021-05-31 05:18:39 UTC (Mon 01:18:39 local) Location: 18.0155° N 66.7410° W Depth: 15.0 km





**Estimated Population Exposed to Earthquake Shaking** 

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ESTIMATED POPULATION EXPOSURE (k=x1000)		1,578k	1,836k	0	0	0	0	0	0	0
ESTIMATED MERCALLI	MODIFIED INTENSITY	I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

# Population Exposure

population per 1 sq. km from Landscan

# 5000 10000 67.8°W 66.5°W 65.2°W 19.4°N 18.2°N Q 17.1°N

### **Structures**

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

## **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1979-03-23	246	6.6	VI(605k)	0
1980-11-12	340	5.9	VII(87k)	_
1984-06-24	277	6.7	VII(326k)	5

# **Selected City Exposure**

from GeoNames.org

MMI	City	Population
III	Ponce	153k
Ш	Tallaboa Alta	2k
Ш	Penuelas	7k
Ш	Tallaboa	1k
Ш	Capitanejo	3k
Ш	Coto Laurel	4k
II	Bayamon	203k
I	Caguas	87k
1	Guaynabo	81k
1	Carolina	170k
I	San Juan	418k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/pr2021151002#pager

Event ID: pr2021151002